Futaba
1M23Z05210

T6K Software update manual

Your Futaba T6K transmitter programming can be updated easily online. When functions are added or improved, the update file can be downloaded from our website.

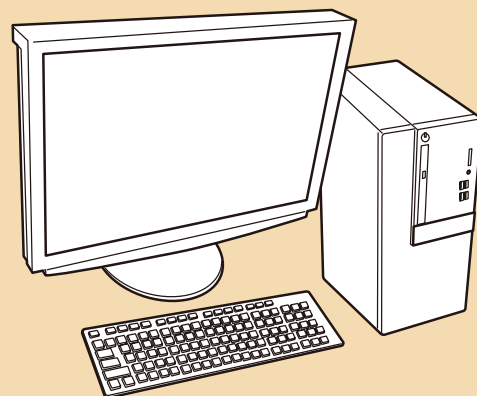For more information, check out web site for FAQ regarding updating this product.

*The display screen is an example. The screen depends on the PC. T6K screens are subject to change without notice.

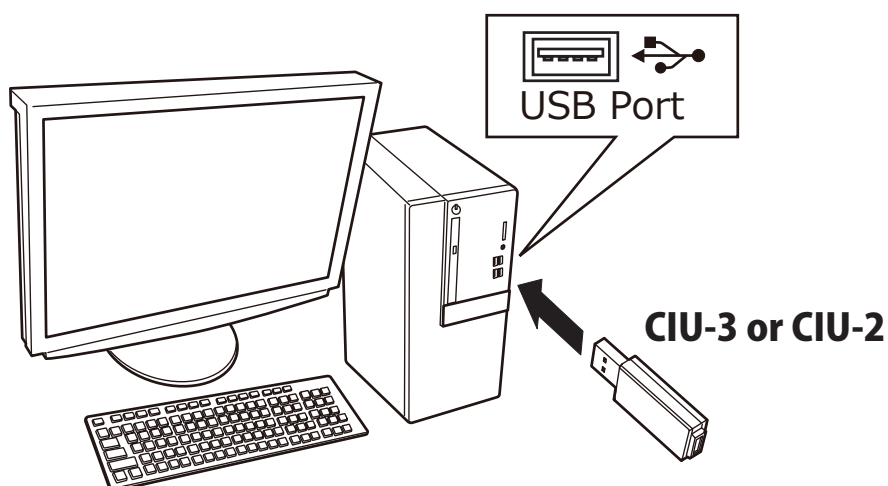## Required for update (Purchase separately)

CIU-3 or **CIU-2**
(optional)

DSC cord
(for updates of 4PV optional)
or
CGY750/GY701/GY520 Extensions (optional)

PC
(Access is possible by the web)

Preparations

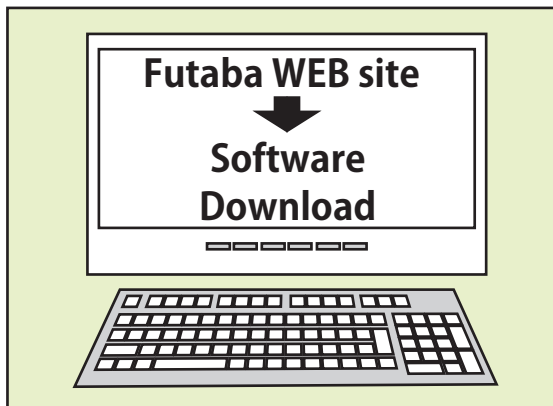**1.** **Install the driver for the CIU-3/CIU-2 onto your PC.**

USB Port

CIU-3 or CIU-2

◆ When the **CIU-3** is first connected to the PC, once the CIU-3 is connected to the PC, download the recommended driver software Using Windows Vista, the "Found New Hardware Wizard" window appears on the screen. Click "Locate and install driver software".

◆ When the **CIU-2** is first connected to the PC; the "Found New Hardware Wizard" window appears on the screen. Install the drivers download from local Futaba Dealers Website.

◆ Refer to the manual of the CIU-3/CIU-2 for further information.
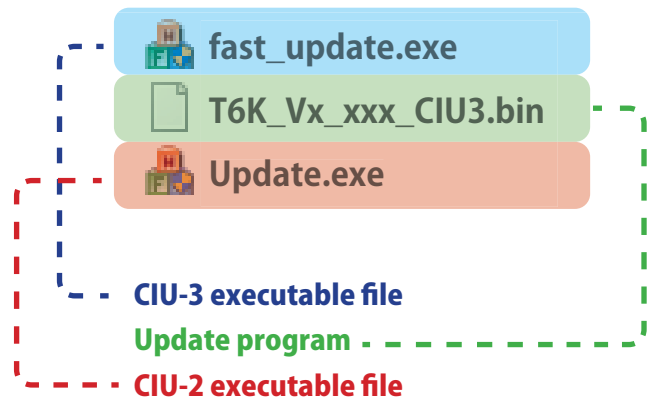
Updating procedure

Note: If the battery fully discharges during program updating, updating will fail. When the remaining battery capacity is 50% or less, always recharge the battery before updating.

1. Download the zip file of the update data from our website or your local distribtor's website.
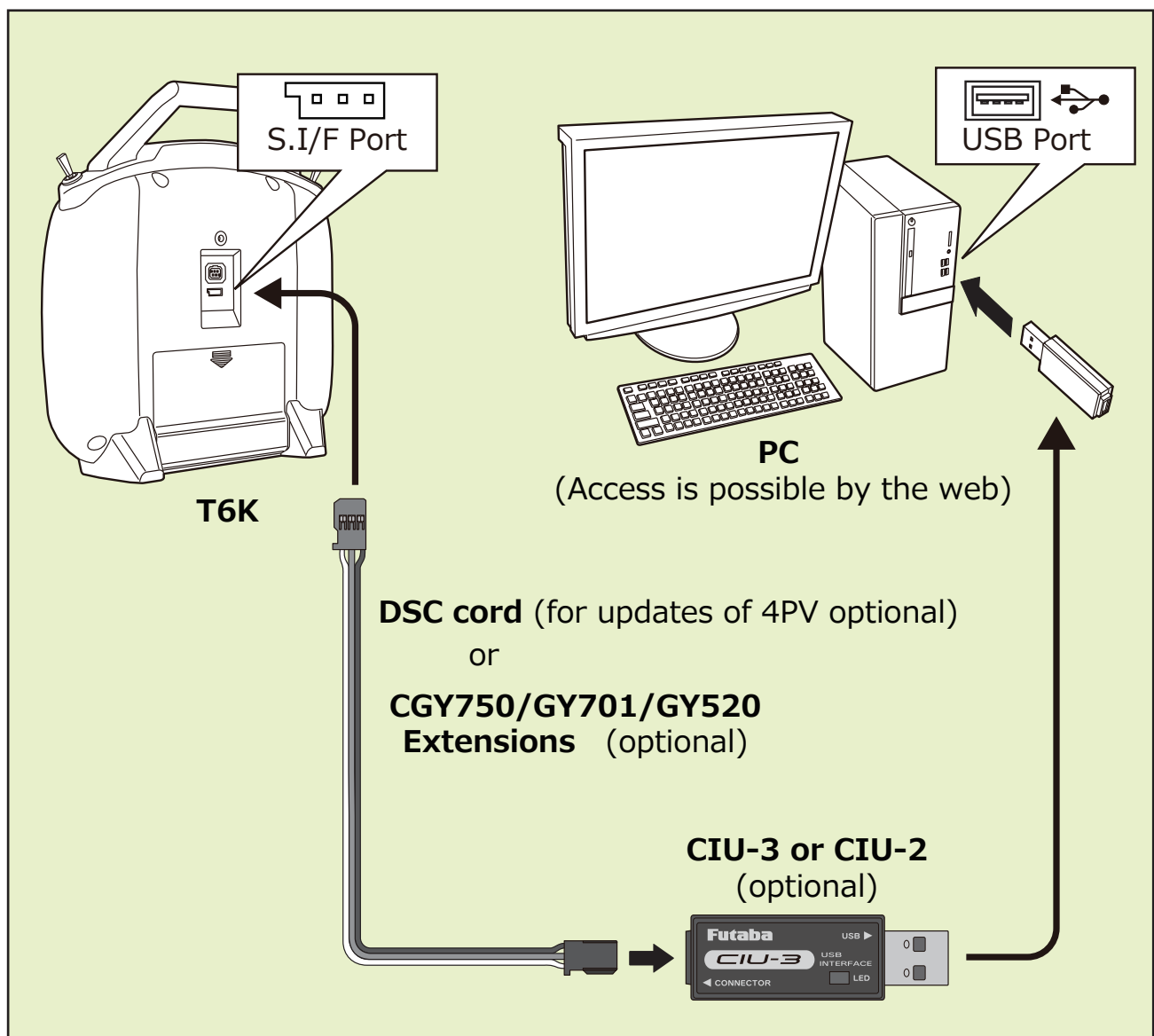
http://www.rc.futaba.co.jp

Futaba WEB site
➡
Software Download

2. Extract the zip file on your computer.

🔧 **fast_update.exe**

📄 **T6K_Vx_xxx_CIU3.bin**

🔧 **Update.exe**

- - **CIU-3 executable file**
Update program - - - -
- - - - **CIU-2 executable file**

3. Connect as shown in the figure.

S.I/F Port

USB Port

T6K

PC
(Access is possible by the web)

DSC cord (for updates of 4PV optional)
or
CGY750/GY701/GY520 Extensions (optional)

CIU-3 or CIU-2
(optional)

T6K

4. **CIU-3**; Turn on the transmitter power while pressing down the "END" and "+" button.
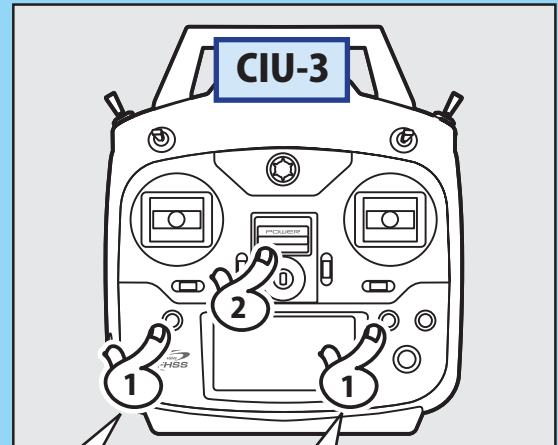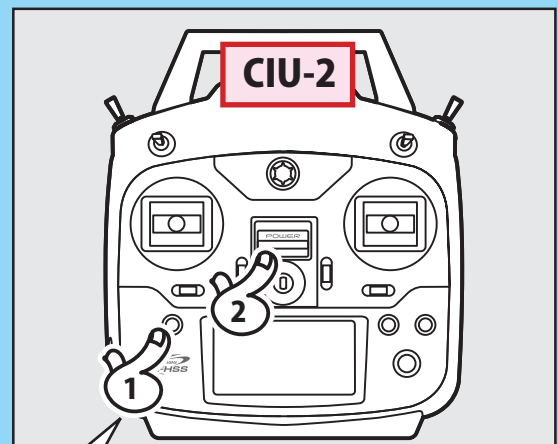
CIU-3

Press the END and ⊕ button next turn ON

CIU-3

```
READY (FACTORY3)
```

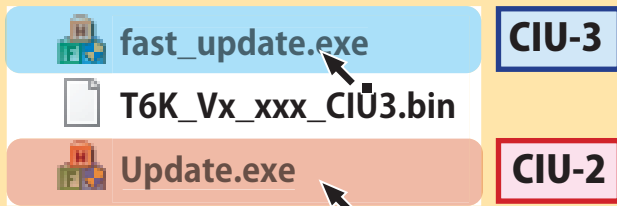**4.** **CIU-2**; Turn on the transmitter power while pressing down the "END" button.
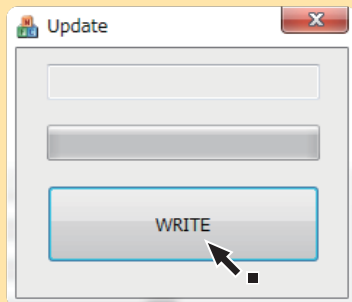
CIU-2

Press the END button next turn ON

CIU-2

```
UPDATE READY
```

PC

5. Start an executable file by a PC.

🔐 **fast_update.exe**	**CIU-3**
📄 **T6K_Vx_xxx_CIU3.bin**	
🔐 **Update.exe**	**CIU-2**

Double-click

Update ✕

[   ]
[▔▔▔▔]
[WRITE]

Write

Update ✕

❓ T6K will be updated. Are you sure?

[OK] [キャンセル]

OK

Update ✕
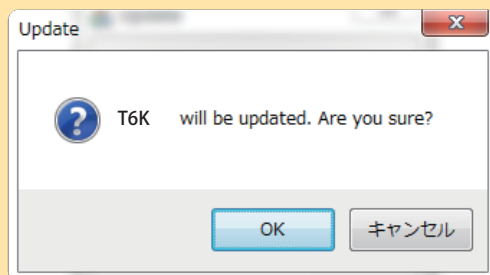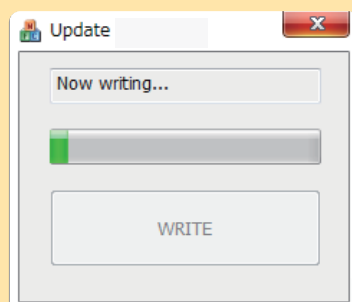
Now writing...
[▮▮▮▯▯▯]
[WRITE]

T6K

CIU-3

READY (FACTORY3)

CIU-2

UPDATE READY

NOW WRITING...

Wait for about 30 seconds - 3 minutes.

Don't turn off the power !

PC

T6K

```
SUCCESS



```

Completed

6. Turn off the power switch of your T6K and remove the CIU-3/CIU-2.

Update ☒

ⓘ This update succeeded.

OK

Shut down the update software.

---

7. Check the software version at [TX SETTING].
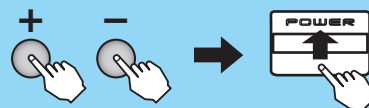
+ − ➡ POWER

Turn off the power and then turn on the power while pressing the **+ key** and **– key** simultaneously. (Setting is ended by power off.)

```
TX SETTING
  STK-MODE▶ 1 [VER:      ]
   STK-ADJ▶ NEXT
   THR-REV▶ NOR
 MENU LANG▶ English
```
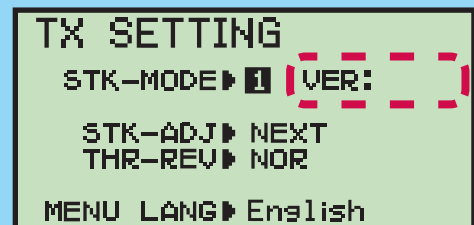
8. Be sure to check the each function before use.

Error

1. **If an error display appeared, the redo an update from the beginning.**

PC

Error	⊗

❌ No product is connected.

[OK]
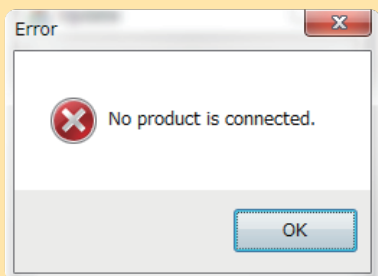
T6K

```
UPDATE
TYPE MISSMATCH
```

⚠️ **Don't disconnect or remove the battery from the transmitter during the update.**

It is possible that the transmitter can be damaged if the battery is unplugged during the update.

In the case of a failed update, the transmitter may not restart. In this situation, try the following steps to retry the updating procedure:

1. Detach the battery from the transmitter.
2. Attach the battery to the transmitter while pressing down the "END" button.
3. The update will start.

Even after the above steps, if the transmitter fails to update or does not start, please have it serviced.

T6K SOFTWARE UPDATE CHANGES
(Version:3.05)

Fixed a bug that the gyro function does not work when throttle cut is enabled.

T6K SOFTWARE UPDATE CHANGES
(Version:3.04)

Fixed a display problem on the P.MIX screen.

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T6K SOFTWARE UPDATE CHANGES
(Version: 3.0)

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Please check to ensure that the update has been installed.
1) Turn on the power switch with the + key and − key pressed in the power off state.
2) Confirm that the information in the display indicates the version numbers as noted above.

Glider: Addition of the 2AIL-B to the wing type

| Conventional 2AIL → Ailerron: CH1 and CH6 |
| 2AIL-B → Ailerron: CH1 and CH3 |

2AIL

Aileron 1 (CH1)
Aileron 6 (CH6)

2AIL-B

Aileron 1 (CH1)
Aileron 3 (CH3)

2AIL-B is for non-powered gliders only. Engine and motor functions cannot be used.

CH	2AIL-B 2 Aileron
1	Aileron 1
2	Elevator
3	Aileron 3
4	Rudder
5	− − −
6	− − −
7	− − −
8	− − −

⚠ Model transfer

Do not transfer model data of 2AIL-B to the old version T6K. It will cause malfunction. The model data transformer must be performed between T6K Ver.3.
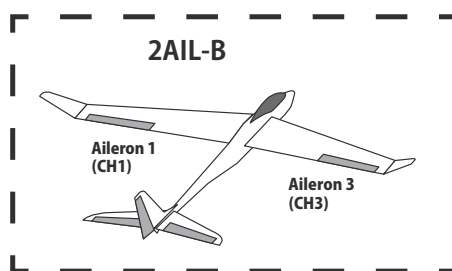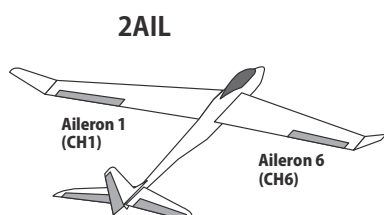
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T6K SOFTWARE UPDATE CHANGES
(Version: 2.0)

This software updates or alters the functions and features noted below. The instructions and information that follow are meant as a supplement to the original instruction manual that accompanied the T6K transmitter. Please refer to the original instruction manual where applicable, but replace the steps indicated below with these instructions. Please note that the software update will be finalized the first time that the T6K is powered up, after the software has been applied. As such, it may require a few moments before the Start screen appears.

Please check to ensure that the update has been installed.
1) Turn on the power switch with the + key and – key pressed in the power off state.
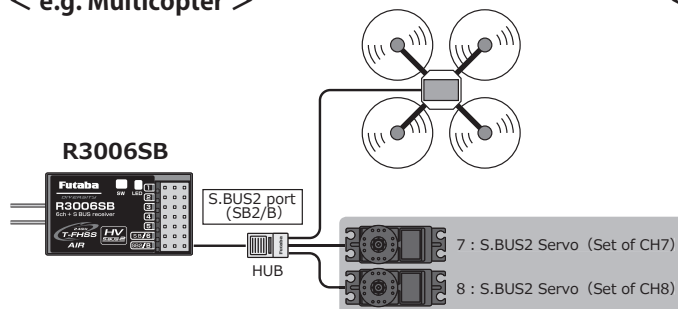2) Confirm that the information in the display indicates the version numbers as noted above.

*T6K V2.0 can use the model data of a previously saved model data, automatically copying it over during the update. Model data from a T6K that has V2.0 installed cannot be copied onto a T6K that has V1.0 still installed.
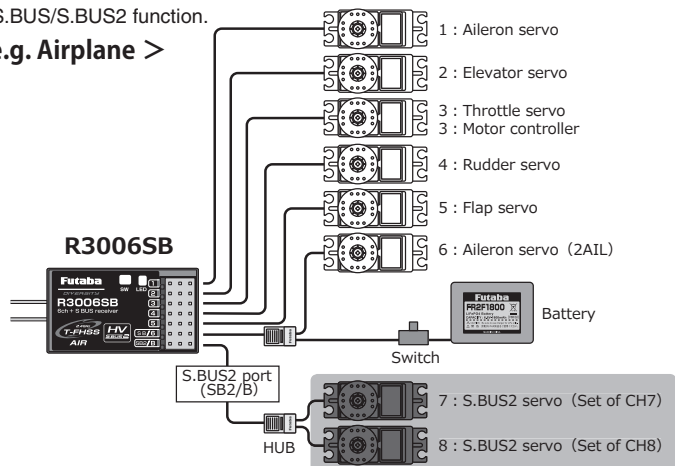
Addition of the channel 7 and channel 8

The previous T6K was a 6ch TX. 7-8 channels were added in V2.0.

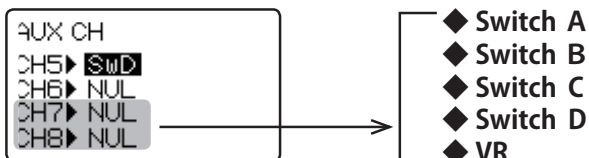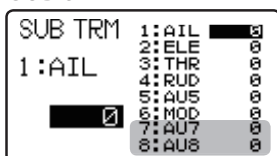*R3006SB doesn't have 7-8 channels ports. When using 7-8 channels, use an S.BUS/S.BUS2 function.
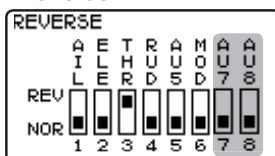
< e.g. Multicopter >

< e.g. Airplane >

R3006SB

S.BUS2 port (SB2/B)

HUB

7 : S.BUS2 Servo (Set of CH7)
8 : S.BUS2 Servo (Set of CH8)

1 : Aileron servo
2 : Elevator servo
3 : Throttle servo
3 : Motor controller
4 : Rudder servo
5 : Flap servo
6 : Aileron servo (2AIL)

R3006SB

Battery
Switch

S.BUS2 port (SB2/B)

HUB

7 : S.BUS2 servo (Set of CH7)
8 : S.BUS2 servo (Set of CH8)

Select the switch or volume of CH7-8

AUX CH
CH5▶ SwD
CH6▶ NUL
CH7▶ NUL
CH8▶ NUL

◆ Switch A
◆ Switch B
◆ Switch C
◆ Switch D
◆ VR

7-8 channel is added to each menu.

SUB trim

SUB TRM   1:AIL ■ 0
          2:ELE   0
1:AIL   3:THR   0
          4:RUD   0
          5:AU5   0
     0   6:MOD   0
          7:AU7   0
          8:AU8   0

Reverse

REVERSE
      A E T R A M A A
      I L H U U O U U
      L E R D 5 D 7 8
REV   ■ ■ ■ ■ ■ ■ ■ ■
NOR   ■ ■ ■ ■ ■ ■ ■ ■
      1 2 3 4 5 6 7 8

Servo

SERVO   1 2 TEST
    1 2 3 4 5 6 7 8

End point

END POINT 1: 100 100
          2: 100 100
1:AIL   3: 100 100
          4: 100 100
  ←   → 5: 100 100
          6: 100 100
 100 100 7: 100 100
          8: 100 100

Fail safe

FAIL SAFE 1 2 3
  TFHSS
         MODE.POSI B-F/S
5:AU5 NOR   ---   ---
6:MOD NOR   ---   ---
7:AU7 NOR   ---   ---
8:AU8 NOR   ---   ---

Trainer

TRAINER
MODE▶ INH

1:AIL▶ FNC 5:AU5▶ OFF
2:ELE▶ FNC 6:MOD▶ OFF
3:THR▶ FNC 7:AU7▶ OFF
4:RUD▶ FNC 8:AU8▶ OFF
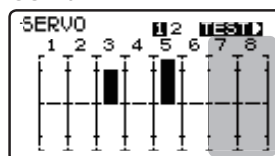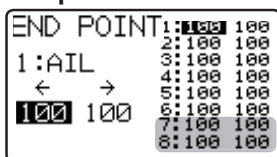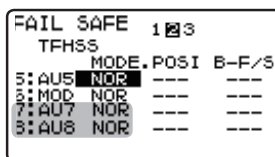
Addition of a system version display

Additional display indicates the version numbers of the [TX SETTING].
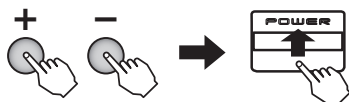
Turn on the power switch with the + key and – key pressed in the power off state. The screen shown at the next appears. To return to the home screen, turn off the power and then turn the power back on without pressing the keys.

TX SETTING
STK-MODE▶ 1 VER:2.02   **Version numbers**

  STK-ADJ▶ NEXT
  THR-REV▶ NOR

MENU LANG▶ English

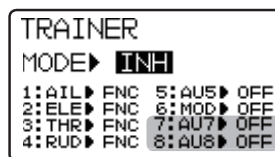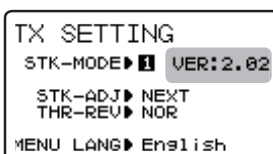## Addition of the timer vibrator indication of the timer

Once the time is reached, the vibrator motor will turn on. The type of vibration can be selected by the user.

TIMER   0:00.0
TIME ▶ 10:00
MODE ▶ UP
START ▶ SwA ▶ NULL
RESET ▶ SwA ▶ NULL
VIB   ▶ OFF
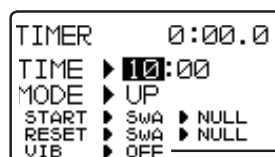
"VIB" type
If the following types are selected, the transmitter will vibrate during the time up.

TYP 1
TYP 2
TYP 3

Addition of the MATRIX type of flight modes (Multicopter type only)

5 flight modes can be set to PRIORITY type. 9 flight modes can be set to MATRIX type.

◆ PRIORITY TYPE e.g. Setting 5 flight modes in MultiCopter Model Type

[PRIORITY] is select by 3 pages.

```
FLY MOD ▮23
      CH5  CH6  CH7  CH8
→NOR:  ──  100  ───  ───
 FM1:  ───   80  ───  ───
 FM2:  ───   60  ───  ───
 FM3:  ───   40  ───  ───
 FM4:  ───   20  ───  ───
```

```
FLY MOD  1▨3
*SW POSITION
        MODE   SW    POSI
 FM1 ▶ OFF  ▶SwA ▶CNTR
 FM2 ▶ OFF  ▶SwA ▶DOWN
 FM3 ▶ OFF  ▶SwC ▶CNTR
 FM4 ▶ OFF  ▶SwC ▶DOWN
```
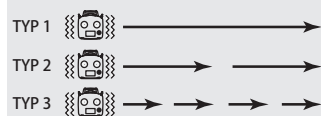
```
FLY MOD  12▨
TYPE▶ PRIORITY  (MAX5)
 CH5▶ INH
 CH6▶ ACT
 CH7▶ INH
 CH8▶ INH
```

The mode change rate of the multicopter control box (CH6 use)

Flight mode change switch

CH6 sets the option to change modes.

SWA	SWC	Flight Mode
		Normal
		F-Mode 1
		F-Mode 2
		F-Mode 3
		F-Mode 4

◆ MATRIX TYPE e.g. Setting up the transmitter to operate the tilt of a camera using switches A and C.

[MATRIX] is select by 3 pages.

```
FLY MOD ▮23
SW1/2 CH5  CH6  CH7  CH8
→U/U:  ──  100  100  ───
 U/C:  ───  100   50  ───
 U/D:  ───  100    0  ───
 C/U:  ───   50  100  ───
 C/C:  ───   50   50  ───
```

```
FLY MOD  1▨3
SW1/2 CH5  CH6  CH7  CH8
 C/D:  ──   50    0  ───
 D/U:  ───    0  100  ───
 D/C:  ───    0   50  ───
 D/D:  ───    0    0  ───
```

```
FLY MOD  12▨
TYPE▶ MATRIX   (MAX9)
 CH5▶ INH
 CH6▶ ACT
 CH7▶ ACT
 CH8▶ INH
 SW1▶ SwA   SW1▶ SwC
```

Camera tilt control rate

Camera tilt control rate

Activating CH6 and CH7 allows the functions to control the camera angle.

SWA	SWC	CAMERA CH6	Servo Rate CH7	
		100	100	
		100	50	
		100	0	
		50	100	
		50	50	
		50	0	
		0	100	
		0	50	
		0	0	

Addition of the current sensor and voltage sensor function

Compatible with the SBS-01C (current sensor) and SBS-01V (voltage sensor).

The **SBS-01C** can monitor and display the in-flight current, voltage, and current consumption of the drive battery.

The **SBS-01V** can monitor and display the in-flight voltage of the drive battery.

*Solder welding is required for instruction.

[TLEMETRY] Page 2

```
C ── 
U
R          EXV
V ── ── ──
O
L
C ── 
A
P
```

[Current setting screen]

●"UP" indicates the alarm will start when the current reaches above your set value.
●Vibrator ON/OFF   ●Current

```
CURRENT          ▼ıl
              0 A  
MIN/MAX=  0 /  0
      (ALARM)(VIB)(LIMIT)
UP▶ INH ▶OFF ▶  100
DN▶ INH ▶OFF ▶    0
SPEECH▶ INH SW▶ NULL
```

●Speech function.   ● Switch selection

●"DN" indicates the alarm will start when the current reaches below your set value.

●The maximum and the minimum when powering ON are shown.
● Maximum and minimum date reset by pressing the **Jog key** for 1 second.

[Voltage setting screen]

●Vibrator ON/OFF   ●Voltage

```
VOLTAGE          ▼ıl
              0.0 V  
MIN/MAX=  0.0V/ 0.0V
      (ALARM)(VIB)(LIMIT)
DN▶ INH ▶OFF ▶  0.0V
SPEECH▶ INH SW▶ NULL
```

●Speech function.   ● Switch selection

●"DN" indicates the alarm will start when the voltage reaches below your set value.

●The maximum and the minimum when powering ON are shown.
● Maximum and minimum date reset by pressing the **Jog key** for 1 second.

[Capacity setting screen]

●"UP" indicates the alarm will start when the capacity reaches above your set value.
●Vibrator ON/OFF   ●Consumption capacity

```
CAPACITY         ▼ıl
             0mAh  
MIN/MAX=  0 /  0
      (ALARM)(VIB)(LIMIT)
UP▶ INH ▶OFF ▶ 100 :
DN▶ INH ▶OFF ▶   0 :
SPEECH▶ INH SW▶ NULL
```

●Speech function.   ● Switch selection

●"DN" indicates the alarm will start when the capacity reaches below your set value.

●The maximum and the minimum when powering ON are shown.
● Maximum and minimum date reset by pressing the **Jog key** for 1 second.

T6K SOFTWARE UPDATE CHANGES 2
(Version: 2.0)

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Please check to ensure that the update has been installed.
1) Turn on the power switch with the + key and – key pressed in the power off state.
2) Confirm that the information in the display indicates the version numbers as noted above.

*T6K V2.0 can use the model data of a previously saved model data, automatically copying it over during the update. Model data from a T6K that has V2.0 installed cannot be copied onto a T6K that has V1.0 still installed.

Addition of the INT Timer

The previous Timer MODE was （**UP**）／（**DOWN**）／（**DN-STP**）. （**UP-TH-INT**）／（**DN-TH-INT**）were added in V2.0.

Integration Timer (UP-TH-INT, DN-TH-INT)

INT (integration) Timer is the function which changes progress of a timer according to the location of the throttle stick. When the throttle stick is raised for faster speed, the speed of the timer usually increases. With the throttle stick at mid-range speed, the timer speed decreases (to 50%). When the throttle is positioned at low end, the timer's progress stops. It's possible to set it in the time which fits power consumption of your fuselage.

● Alarm (Vib)

The integration Timer audible alarm indicates the time by a beep from 10% and 0% before the set time.

*The consumption of the battery/fuel is different depending on the conditions, so use an INT Timer as reference.

*The INT (integration) time is different from the actual elapsed time.

When a throttle stick is the high side, the speed of the timer usually increases.

When a throttle stick is middle-speed, the timer speed decreases (by 50%).

When a throttle stick is low, timer progress stops.

Displaying the timer on the home screen

Elapsed time	
INT (integration) time	
INT time (%)	

● **UP-TH-INT:** Count up integration timer
● **DN-TH-INT:** Count down integration timer

● **Example**
When it's connected with the throttle stick, a START of a timer can be used more easily.
The setting example which starts an INT timer when a throttle stick exceeds 2%.